

Dkt. 05168

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Group Art Unit: 1746

PHILIP VON SCHROETER et al

Serial No.: 10/564,161

Filed: January 11, 2006.

For: METHOD FOR REPRESENTING A DENTAL OBJECT

AND FOR PRODUCING DENTURES

SUBMISSION OF INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Honorable Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

Sir:

Applicants submit herewith an English translation of the International Preliminary Report on Patentability in the corresponding PCT application.

Respectfully submitted,

Ira J. Schultz

Registration No. 28666

DENNISON, SCHULTZ & MACDONALD 1727 KING STREET

PATENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)
(PCT Rules 44bis.3(c) and 72.2)

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Date of mailing (day/month/year)
01 June 2006 (01.06.2006)

Applicant's or agent's file reference 44 365

International application No. PCT/EP2004/007406

IMPORTANT NOTIFICATION

International filing date (day/month/year) 07 July 2004 (07.07.2004)

Applicant

DEGUDENT GMBH et al

1.	Transmittal	of the	translation	to	the applicant.
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7	The International Bureau transmits herewith a copy of	of the English translation of the inter	rnational preliminary report on
لـ	patentability (Chapter I).	•	

The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

ΚR

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

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3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Ellen Moyse

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PATENT COOPERATION TREATY

Translation

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

						
Applicant's or agent's file reference 44 365	FOR FURTHER	ACTION	See Form PCT/IPEA/416			
International application No.	International filing d	ate (day/month/year)	Priority date (day/month/year)			
PCT/EP2004/00740	6 07.07.200)4	14.07.2003			
International Patent Classification (IP						
A61C13/00, A61C9						
Applicant DEGUDENT GMBH						
	nal preliminary examination re tted to the applicant according		nternational Preliminary Examining Authority			
2. This REPORT consists of a	total of 6	sheets, including	this cover sheet.			
 This report is also accompan 	ied by ANNEXES. comprising	:				
a. (sent to the appli	cant and to the International B	ureau) a total of 3	sheets, as follows:			
sheets of th	e description, claims and/or dra aining rectifications authorized	awings which have been ar	nended and are the basis for this report and/or e 70.16 and Section 607 of the Administrative			
			iders contain an amendment that goes beyond in item 4 of Box No. I and the Supplemental			
b. (sent to the Intern	national Bureau only) a total of	Cindicate type and number	of electronic carrier(s))			
O (ucia to are area.	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))					
	, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indication	ons relating to the following ite	ms:				
Box No. I Ba	sis of the report		-			
	ority					
		h regard to novelty, inventive step and industrial applicability				
	ck of unity of invention		•			
Box No. V Re.						
Box No. VI Cer	tain documents cited					
Box No. VII Cer	tain defects in the international	application				
Box No. VIII Cer	tain observations on the interna	ational application				
Date of submission of the demand Date of completion of this report						
Date of submission of the deniand		Date of completion of this	report			
Name and mailing address of the IPEA	/EP	Authorized officer	- 14 (- 14 - 14 - 14 - 14 - 14 - 14 - 1			
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Faccimile No.		Talankana Na				

International application No.

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Box No.	I Basis of the report				
	th regard to the language, this report is based on the internation	onal application in the language in which	it was filed, unless otherwise		
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:				
	international search (Rule 12.3 and 23.1(b))	Λ.			
	publication of the international application (Rule 12.4 international preliminary examination (Rule 55.2 and				
2. Wi	th regard to the elements of the international application, this		which have been furnished to the		
rec	eiving Office in response to an invitation under Article 14 an				
	the international application as originally filed/furnished				
	the description:				
	•		as ariginally filed/firmished		
			as originally filed/furnished		
		received by this Authority on 12.			
	pages*	received by this Authority on			
	the claims:				
	nos. 1-18		as originally filed/furnished		
	nos.*	as amended (together with	any statement) under Article 19		
	nos.* 19-23	received by this Authority on 12.	05.2005 with fax		
	nos.*	received by this Authority on			
	the drawings:				
	sheets 1/4-4/4 - figures 1-10		as originally filed/furnished		
	sheets*	received by this Authority on			
	sheets*	received by this Authority on			
	a sequence listing and/or any related table(s) - see Supplem	ental Box Relating to Sequence Listing.			
3.	The amendments have resulted in the cancellation of:				
	The amendments have resulted in the cancellation of: the description, pages				
	the claims, nos.				
	the sequence listing (specify):				
	any table(s) related to sequence listing (specify):		_		
4.	This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil				
	the claims, nos.				
	the drawings, sheets/figs				
	the sequence listing (specify):				
* If it	em 4 applies, some or all of those sheets may be marked "supe				

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Box No. V Reasoned statement und citations and explanatio			ticle 35(2) with regard to novelty, inventive step or industrial applicability; poorting such statement		
1.	Statement				
	Novelty	(N)	Claims	1-23	YES
			Claims		NO
	Inventive step (IS)		Claims		YES
		Claims	1-23	NO	
	Industria	d applicability (IA)	Claims	1-23	YES
			Claims		NO

- 2. Citations and explanations (Rule 70.7)
 - 1 INDEPENDENT CLAIM 1
 - 1.1 The present application does not meet the requirements of PCT Article 33(1) because the subject matter of claim 1 does not involve an inventive step within the meaning of PCT Article 33(3).

D1 discloses:

process for graphic representation of a digitized dental object on a monitor based on a rectangular coordinate system with x-, y- and z-axes, wherein the z-axis and the y-axis and the intersection extend in the plane of representation of the monitor and the x-axis extends perpendicularly to the plane of representation and the dental object is rotated about two axes perpendicular to each other and moved along the x-axis for the purpose of zooming in on the object.

Although the object can be moved with six degrees of freedom (albeit not readily), an operator can always ensure that the object is moved with only

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

one degree of freedom or two degrees of freedom: at least, with fewer than five degrees of freedom.

Claim 1 contains no technical features whereby the operator can readily move the object along the taxis. Moreover, zooming along the x-axis, wherein the x-axis extends along a plane spanned by the x-axis and the y-axis and passes through the origin of the coordinate system, is possible

Therefore, the subject matter of the characterizing part of claim 1 consists only in an operation by a person. Consequently, the subject matter of claim 1 does not involve an inventive step.

2 DEPENDENT CLAIMS 2-23

2.1 Claims 2-18 do not appear to contain any features which, in combination with the features of any claim to which they refer back, meet the PCT requirements for inventive step. The reasons are: these features are known from D1, D2 and D3 or merely represent minor modifications.

2.2 D3 discloses:

process for producing a dental prosthesis based on digitized data for a jaw area which is to be provided with the dental prosthesis, calculation of the dental prosthesis on the basis of the digitized data and graphic representation of the

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

dental prosthesis on a monitor, evaluation of the graphically represented dental prosthesis by moving the dental prosthesis on the monitor and, if necessary, modifying the graphically represented dental prosthesis and then producing the dental prosthesis on the basis of data corresponding to the graphically represented dental prosthesis (see claim 16).

Graphic representation on a monitor according to claim 1 is known from D1 (see paragraph 2.1). A person skilled in the art would consider use of this process for the purpose of graphic representation in the production process according to claim 19 without thereby being inventive.

A trackball is used to move the dental prosthesis on the monitor (see column 7, lines 4-6). Although D3 does not expressly state that the object can be moved on the monitor, this is implicit in the description and figure 13C. An operator can always ensure that the object is moved with only one degree of freedom or two degrees of freedom: at least, with fewer than five degrees of freedom.

Consequently, the subject matter of claim 19 does not involve an inventive step.

2.3 Claims 20-23 do not appear to contain any features which, in combination with the features of any claim to which they refer back, meet the PCT requirements for inventive step. The reasons are:

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Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
-	these features are known from D1 and D3.					
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